

(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: **10167638 A**

(43) Date of publication of application: **23.06.98**

(51) Int. Cl.

B66B 13/14
B66B 13/24

(21) Application number: **08335305**

(22) Date of filing: **16.12.96**

(71) Applicant: **HITACHI LTD**

(72) Inventor: **HATA KOSEI**
MITSUNE SHUNSUKE
ONO YOICHI

(54) **BRAKING DEVICE FOR DOOR**

is impressed, breaking the rotational part 10.

(57) Abstract:

COPYRIGHT: (C)1998,JPO

PROBLEM TO BE SOLVED: To enable a motor-driven on-off type door to decelerate and stop safely without hindering the rescue of confinement or the like by manual opening or closing at the time of door control trouble or power failure by operating a brake for a given period of time in this door control trouble or after power failure.

SOLUTION: A brake drum 20 is connected to a door movable part 10, and a brake coil 22 drives a brake shoe 21 by means of power impression from a control circuit 30. In time of this power impression to the brake coil 22, the brake shoe 21 is forcibly pressed to the brake drum 20, braking a rotational part 10, and any motion of a door is controlled, and in time of non-energization, the brake shoe 21 is separated from the brake drum 20 by dint of a spring 23. In addition, when power is lost by power failure or the like, electric power stored in a condenser is discharged in a conducting contact point in time of deenergization of a contactor, the brake coil 22 and a resistance route, and for a given period of time till this discharge is ended, power to the brake coil 22

